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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,257	12/12/2003	Heon Jung	ASIAP001	9792
	7590 12/20/2006 I & JAMES LLP		EXAM	INER
10050 N. FOO	THILL BLVD #200		LANGEL, WAYNE A	
CUPERTINO, CA 95014			ART UNIT	PAPER NUMBER
			1754	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/20/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/735,257	JUNG ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Wayne Langel	1754			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIO 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>26</u>	October 2006.				
2a)⊠ This action is FINAL . 2b)□ TI	☐ This action is FINAL . 2b)☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application	on.				
4a) Of the above claim(s) is/are withd					
5) Claim(s) is/are allowed.		·			
6)⊠ Claim(s) <u>1-14</u> is/are rejected.		·			
7) Claim(s) is/are objected to.		¥			
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exami	iner.				
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to b	y the Examiner.			
Applicant may not request that any objection to the	he drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	· · · · · · · · · · · · · · · · · · ·				
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority docume					
2. Certified copies of the priority docume	·				
3. Copies of the certified copies of the pr	•	eceived in this National Stage			
application from the International Bure * See the attached detailed Office action for a li	* **	consisted			
See the attached detailed Office action for a fi	ist of the certified copies flot i	eceiveu.			
Attachment(s)	_				
1) Notice of References Cited (PTO-892)		ummary (PTO-413) /Mail Date			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Inf	formal Patent Application			
Paper No(s)/Mail Date	6) 🔲 Other:	~ ∙			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hershkowitz et al '138 in view of Anumakonda et al, further in view of Zeng et al, even further in view of Towler et al (newly cited).. Hershkowitz et al '138, Anumakonda et al and Zeng et al are relied upon as discussed in the last Office Action. It would be further obvious from Towler et al to provide a metal monolith having welded electreical rodes at both ends in the process of Hershkowitz et al '138, since Towler et al , since Towler et al disclose a partial oxidation process and teach at col. 20, line 61 to col. 21, line 11 that igniter 205 is comprised of two rods having a proximal end and a distal end. Towler et al go on to disclose that when sufficient electrical current is applied to the proximal ends of the igniter rods, there will be heat transferred to the partial oxidation cvatalyst in an amount which is effective to light-off the partial oxidation reaction. It would be further obvious from this disclosure in Towler et al to ignite the partial oxidation process of Hershkowitz et al '138 by providing welded electrical rods at both ends within the reactor, since Towler et al establish the conventionality of igniting the POX reactor by such method. Applicants' argument, that in their invention electrical supply to the EHC is terminated once the reaction starts, thus saving electricity, is not convincing, since the electrical supply in the process of Towler et al would also be terminated after ignition. Applicants' argument, that the heat exchanger described by applicants is different from

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the way Zeng heats up the reactant, is not convincing. Zeng et al disclose at col. 2, lines 52-59 that the heat produced during the step partial oxidation step can be used to preheat incoming process streams, which would be the same as applicants' step of "passing said heated product gas stream through said heat exchanger to provide heat to said feed gas mixture at the room temperature".

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no "description support" in the original specification for employing a monolith "having welded electrical rods at both ends". Although original claim 12 recites a monolith "with both end welded by electric wires", "wires" would not be the same as "rods".

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel Primary Examiner Art Unit 1754